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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/721,177	11/26/2003	Cheong-Jeong Seo	P56921	6614
7590 Robert E. Bushnell Suite 300 1522 K Street, N.W. Washington, DC 20005			EXAMINER TRAN, NGHI V	
			ART UNIT 2151	PAPER NUMBER
			MAIL DATE 06/24/2008	DELIVERY MODE PAPER

**Please find below and/or attached an Office communication concerning this application or proceeding.**

The time period for reply, if any, is set in the attached communication.

# Office Action Summary

**Application No.**

10/721,177

**Applicant(s)**

SEO, CHEONG-JEONG

**Examiner**

NGHI V. TRAN

**Art Unit**

2151

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --  
**Period for Reply**

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

**Status**

- 1) ☒ Responsive to communication(s) filed on 26 November 2003.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

**Disposition of Claims**

- 4) ☒ Claim(s) 1-31 is/are pending in the application.
- 4a) Of the above claim(s) \_\_\_\_\_ is/are withdrawn from consideration.
- 5) ☐ Claim(s) \_\_\_\_\_ is/are allowed.
- 6) ☒ Claim(s) 1-31 is/are rejected.
- 7) ☐ Claim(s) \_\_\_\_\_ is/are objected to.
- 8) ☐ Claim(s) \_\_\_\_\_ are subject to restriction and/or election requirement.

**Application Papers**

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on \_\_\_\_\_ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.  
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

**Priority under 35 U.S.C. § 119**

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some \* c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
  2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
  3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

\* See the attached detailed Office action for a list of the certified copies not received.

**Attachment(s)**

- 1) ☒ Notice of References Cited (PTO-892)
- 2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
- 3) ☒ Information Disclosure Statement(s) (PTO/SG/IC)  
Paper No(s)/Mail Date 11/26/2003 and 04/23/2004
- 4) ☐ Interview Summary (PTO-413)  
Paper No(s)/Mail Date \_\_\_\_\_
- 5) ☐ Notice of Informal Patent Application
- 6) ☐ Other: \_\_\_\_\_

### DETAILED ACTION

1. Claims 1-31 are presented for further examination.

#### ***Claim Rejections - 35 USC § 103***

2. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

3. Claims 1-31 are rejected under 35 U.S.C. 103(a) as being unpatentable over Nuutinen, United States Patent Application Publication Number 2002/0129236 (hereinafter Nuutinen), in view of Schuster et al., United States Patent Number 6,856,616 (hereinafter Schuster).
4. Regarding claims 1, 13, 18, 23, and 27, Nuutinen teaches in a voice over Internet protocol system [= a secure voice over internet protocol, see abstract] including a terminal [= a secure VoIP terminal endpoint 1 of fig.5] and a session initiation protocol server [= SIP server of fig. 14], a terminal registration [paragraph 0053-0054] method using a session initiation protocol [= SIP] [paragraphs 0006-0014], comprising:  
transmitting a register message [= register message from User A, fig.14]  
including the obtained terminal information [paragraphs 0057-0058] and designating of

a telephone number field [= call-id, figs.5-6 and paragraph 0057-0058] to the session initiation protocol server [= SIP server of fig.14] by the terminal [= endpoints 1 of fig.5 or User A of fig.14];

retrieving the database, and transmitting user registration information in accordance with the terminal information received from the terminal [= from endpoint 1 to endpoint 2 of fig.5 and fig.6] by the session initiation protocol sever receiving the register message including the terminal information and designating the first predetermined value with the field value of the telephone field from the terminal [fig.5];

requesting the session initiation protocol server to perform registration by using the received user registration information by the terminal [paragraphs 0053-0054] ; and

performing the registration of the terminal, and transmitting a registration success message [= 200 OK message, paragraph 0087 and fig.14] to the terminal [= User A] by the session initiation protocol server [= SIP server] receiving a registration request signal including the user registration information from the terminal [figs.4-6 and 14].

However, Nuutinen does not explicitly show transmitting a media access control address to the session initiation protocol server by the terminal; retrieving a database, and transmitting terminal information of the terminal corresponding to the received media access control address to the terminal by the session initiation protocol server receiving the media access control address from the terminal; and designating a first predetermined value with a field value of a telephone number field.

In VoIP system, Schuster discloses transmitting a media access control address [= MAC addresses] to the session initiation protocol server by the terminal; retrieving a database, and transmitting terminal information of the terminal corresponding to the received media access control address to the terminal by the session initiation protocol server receiving the media access control address from the terminal [col.15, ll.8 through col.16, ll.36]. Further Schuster further teaches designating a first predetermined value with a field value of a telephone number field [= the registration message including a temporary user identifier such as xxxxxxxx, col.18, ll.8-14].

Therefore, it would have been obvious to one of ordinary skill in the art at the time of the invention was made to modify Nuutinen in view of Schuster by transmitting MAC address because this feature uses its MAC address as an initial telephone identifier [Schuster, col.17, ll.31-32]. It is for this reason that one of ordinary skill in the art at the time of the invention would have been motivated in order to register to a service provider [Schuster, col.11, ll.53].

5. Regarding claims 2, 24, and 29, Nuutinen further teaches wherein the terminal information includes Internet protocol address [= 128.3.4.5], Subnet, and domain name server information [= bell-telephone.com] of the terminal [fig.10 and paragraphs 0057-0058].

6. Regarding claims 3, 25, and 30, Nuutinen further teaches wherein the user registration information includes a telephone number [= call-ID of fig.10 and paragraphs

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0057-0058].

7. Regarding claim 4, Nuutinen does not teach wherein the first predetermined value transmitted to the session initiation protocol server from the terminal in the step of transmitting the register message is "0000".

In VoIP system, Schuster discloses wherein the first predetermined value transmitted to the session initiation protocol server from the terminal in the step of transmitting the register message is "0000" [= the registration message including a temporary user identifier such as xxxxxxxx, col.18, ll.8-14].

Therefore, it would have been obvious to one of ordinary skill in the art at the time of the invention was made to modify Nuutinen in view of Schuster by transmitting the register message "0000" because this feature uses its MAC address as an initial telephone identifier [Schuster, col.17, ll.31-32] . It is for this reason that one of ordinary skill in the art at the time of the invention would have been motivated in order to register to a service provider [Schuster, col.11, ll.53].

8. Regarding claims 5 and 26, Nuutinen does not teach wherein the first predetermined value transmitted to the session initiation protocol server from the terminal in the step of transmitting the register message is a predetermined unused telephone number.

In VoIP system, Schuster discloses wherein the first predetermined value transmitted to the session initiation protocol server from the terminal in the step of

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transmitting the register message is a predetermined unused telephone number [= the registration message including a temporary user identifier such as xxxxxxxx, col.18, ll.8-14].

Therefore, it would have been obvious to one of ordinary skill in the art at the time of the invention was made to modify Nuutinen in view of Schuster by transmitting the register message as a predetermined unused telephone number because this feature uses its MAC address as an initial telephone identifier [Schuster, col.17, ll.31-32]. It is for this reason that one of ordinary skill in the art at the time of the invention would have been motivated in order to register to a service provider [Schuster, col.11, ll.53].

9. Regarding claim 6, Nuutinen does not teach wherein the step of transmitting the media access control address to the session initiation protocol server from the terminal of the step of transmitting the media access control address, the media access control address is transmitted by using a broadcasting method.

In VoIP system, Schuster discloses wherein the step of transmitting the media access control address to the session initiation protocol server from the terminal of the step of transmitting the media access control address, the media access control address is transmitted by using a broadcasting method [col.15, ll.8 through col.16, ll.36]. Therefore, it would have been obvious to one of ordinary skill in the art at the time of the invention was made to modify Nuutinen in view of Schuster by transmitting MAC address using a broadcasting method because this feature uses its MAC address as an

initial telephone identifier [Schuster, col.17, ll.31-32] . It is for this reason that one of ordinary skill in the art at the time of the invention would have been motivated in order to register to a service provider [Schuster, col.11, ll.53].

10. Regarding claims 7-8, 14-15, 19-20, 28, and 31, Nuutinen further teaches wherein the step of retrieving the database, and transmitting terminal information of the terminal comprises the sub-steps of: transmitting the received to the location server by the proxy server [= location into request from proxy server to location server, fig.5]; retrieving a database, and transmitting terminal information to the proxy server by the location server from the proxy server [figs.5-6]; and transmitting the received terminal information to the terminal by the proxy server receiving the terminal information from the location server [paragraphs 0092-0093].

However, Nuutinen does not explicitly show transmitting a media access control address to the session initiation protocol server by the terminal; retrieving a database, and transmitting terminal information of the terminal corresponding to the received media access control address to the terminal by the session initiation protocol server receiving the media access control address from the terminal.

In VoIP system, Schuster discloses transmitting a media access control address [= MAC addresses] to the session initiation protocol server by the terminal; retrieving a database, and transmitting terminal information of the terminal corresponding to the received media access control address to the terminal by the session initiation protocol



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server receiving the media access control address from the terminal [col.15, ll.8 through col.16, ll.36].

Therefore, it would have been obvious to one of ordinary skill in the art at the time of the invention was made to modify Nuutinen in view of Schuster by transmitting MAC address because this feature uses its MAC address as an initial telephone identifier [Schuster, col.17, ll.31-32] . It is for this reason that one of ordinary skill in the art at the time of the invention would have been motivated in order to register to a service provider [Schuster, col.11, ll.53].

11. Regarding claim 9, Nuutinen further teaches wherein a message used to transmit the user registration information to the terminal from the proxy server [= proxy of fig.5] is "401 Error Message" [= 401 Unauthorized message, paragraphs 0211-0218 and 0263].

12. Regarding claims 10 and 16, Nuutinen further teaches wherein a message used to transmit the user registration information to the terminal from the proxy server is an error message [= 401 Unauthorized message, paragraphs 0211-0218 and 0263].

13. Regarding claims 11, 17, and 21-22, Nuutinen further teaches wherein the step of performing the registration of the terminal, and transmitting a registration success message [= 200 OK message, paragraph 0087 and fig.14] comprises the sub-steps of: transmitting a received registration message to the location server [= location server of figs.5-6] by the proxy server [= proxy server of figs.5-6] receiving the registration

message [= INVITE message] including the user registration information from the terminal [= Endpoint 1] [figs.5-6]; comparatively analyzing the registration message by parsing the message [= SIP parser of fig.15], performing registration if the message is successful [fig.14], and transmitting a success message to the proxy server by the location server [figs.5-6]; and transmitting the received success message to the terminal by the proxy server [figs.5-6].

14. Regarding claim 12, Nuutinen further teaches wherein a request message [= request messages, paragraph 0061] includes at least a sequence number, an identification, and an media access control address [paragraphs 0085-0086] and a response message includes at least a sequence number, an identification, and a reason [= the request is responded with a response message, which is similar to the request message, paragraph 0087].

### ***Conclusion***

15. Any inquiry concerning this communication or earlier communications from the examiner should be directed to NGHI V. TRAN whose telephone number is (571)272-4067. The examiner can normally be reached on Monday-Thursday and every other Friday (6:30-4:00).

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, John Follansbee can be reached on (571) 272-3960. The fax phone

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number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Nghi Tran  
Patent Examiner  
Art Unit 2151

May 29, 2008

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/John Follansbee/  
Supervisory Patent Examiner, Art Unit 2151